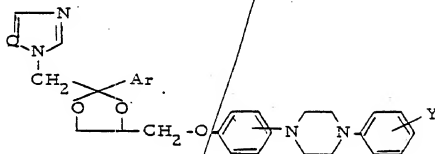


1. A chemical compound selected from the group consisting of an azole derivative having the formula:

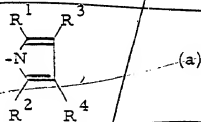


- and the pharmaceutically acceptable acid addition salts and stereo-chemically isomeric forms thereof, wherein:

Q is a member selected from the group consisting of CH and N;

Ar is a member selected from the group consisting of phenyl, thienyl, halothieryl and substituted phenyl, said substituted phenyl having from 1 to 3 substituents each independently selected from the group consisting of halo, lower alkyl, lower alkyloxy and trifluoromethyl; and

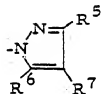
the radical Y is a member selected from the group consisting of a 1H-pyrrol-1-yl radical of the formula



wherein R^1 , R^2 , R^3 and R^4 are each independently selected from the group consisting of hydrogen, lower alkyl, aryl and aryl lower alkyl;

16

a 1H-pyrazol-1-yl radical of the formula



(b)

17

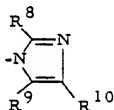
wherein R^5 , R^6 and R^7 are each independently selected from the group consisting of hydrogen, lower alkyl, aryl and aryl lower alkyl;

18

19

20

a 1H-imidazol-1-yl radical of the formula



(c)

21

wherein R^8 is selected from the group consisting of hydrogen, lower alkyl, mercapto, lower alkylthio and aryl-lower alkylthio, and R^9 and R^{10} are each independently selected from the group consisting of hydrogen, lower alkyl, aryl and aryl lower alkyl;

22

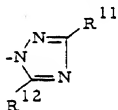
23

24

25

26

a 1H-1,2,4-triazol-1-yl radical of the formula



(d)

27

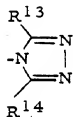
wherein either of R^{11} and R^{12} is selected from the group consisting of hydrogen, hydroxy, mercapto, lower alkylthio and aryl-lower alkylthio, the remaining being selected from the group consisting of hydrogen, lower alkyl and aryl-lower alkyl;

28

29

30

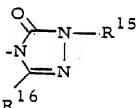
31 a 4H-1,2,4-triazol-4-yl radical of the formula



(e)

32 wherein R^{13} is selected from the group consisting of
 33 hydrogen, mercapto, hydroxy, lower alkylthio and aryl
 34 lower alkylthio, and R^{14} is selected from the group consist-
 35 ing of hydrogen, lower alkyl, aryl and aryl lower alkyl;

36 a 2,3-dihydro-4H-1,2,4-triazol-4-yl radical of the formula



(f)

37 wherein R^{15} is selected from the group consisting of lower
 38 alkyl and aryl lower alkyl and R^{16} is selected from the
 39 group consisting of hydrogen, lower alkyl, and aryl lower
 40 alkyl;

41 a 1H-1,2,3,4-tetrazol-1-yl radical of the formula



(g)

42 wherein R^{17} is selected from the group consisting of
 43 hydrogen, mercapto, lower alkyl, aryl and aryl lower
 44 alkyl;

45 wherein said aryl as used in the foregoing definition is selected
 46 from the group consisting of phenyl and substituted phenyl,

said substituted phenyl having from 1 to 3 substituents each independently selected from the group consisting of halo, lower alkyl, lower alkyloxy and trifluoromethyl.

2. A chemical compound selected from the group consisting of cis-1-{4-[2-(2,4-dichlorophenyl)-2-(1H-1,2,4-triazol-1-ylmethyl)-1,3-dioxolan-4-ylmethoxy]phenyl}-4-[4-(1H-imidazol-1-yl)phenyl]-piperazine and the pharmaceutically acceptable acid addition salts and stereochemically isomeric forms thereof.

3. A chemical compound selected from the group consisting of cis-1-{4-[2-(2,4-dichlorophenyl)-2-(1H-imidazol-1-ylmethyl)-1,3-dioxolan-4-ylmethoxy]phenyl}-4-[4-(1H-1,2,4-triazol-1-yl)-phenyl]piperazine and the pharmaceutically acceptable acid addition salts and stereochemically isomeric forms thereof.

2. A chemical compound selected from the group consisting of cis-4-{4-[4-{4-[2-(2,4-dichlorophenyl)-2-(1H-imidazol-1-ylmethyl)-1,3-dioxolan-4-ylmethoxy]phenyl}-1-piperazinyl]phenyl}-2,4-dihydro-2,5-dimethyl-3H-1,2,4-triazol-3-one and the pharmaceutically acceptable acid addition salts and stereochemically isomeric forms thereof.

3. A chemical compound selected from the group consisting of cis-4-{4-[4-{4-[2-(2,4-dichlorophenyl)-2-(1H-1,2,4-triazol-1-ylmethyl)-1,3-dioxolan-4-ylmethoxy]phenyl}-1-piperazinyl]phenyl}-2,4-dihydro-2,5-dimethyl-3H-1,2,4-triazol-3-one monohydrate and the pharmaceutically acceptable acid addition salts and stereochemically isomeric forms thereof.

6. A chemical compound selected from the group consisting of cis-1-{4-[2-(2,4-dichlorophenyl)-2-(1H-1,2,4-triazol-1-ylmethyl)-1,3-dioxolan-4-ylmethoxy]phenyl}-4-[4-(1H-imidazol-1-yl)phenyl]-

4 piperazine and the pharmaceutically acceptable acid addition salts
5 and stereochemically isomeric forms thereof.

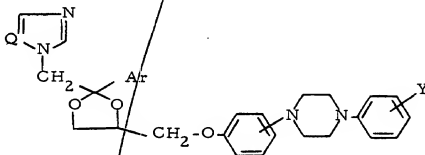
1 7. A chemical compound selected from the group consisting
2 of cis-1-{4- $\overline{2}$ -(2,4-dichlorophenyl)-2-(1H-1,2,4-triazol-1-yl-
3 methyl)-1,3-dioxolan-4-ylmethoxy/phenyl}-4-{4- $\overline{3}$ -(methylthio)-
4 1H-1,2,4-triazol-1-yl/phenyl} piperazine and the pharmaceutically
5 acceptable acid addition salts and stereochemically isomeric
6 forms thereof.

1 8. A chemical compound selected from the group consisting
2 of cis-4-{4- $\overline{4}$ {4- $\overline{2}$ -(2,4-dichlorophenyl)-2-(1H-1,2,4-triazol-
3 1-ylmethyl)-1,3-dioxolan-4-ylmethoxy/phenyl}-1-piperazinyl/phenyl
4 }-2-ethyl-2,4-dihydro-5-methyl-3H-1,2,4-triazol-3-one
5 and the pharmaceutically acceptable acid addition salts and stereo-
6 chemically isomeric forms thereof.

1 9. A chemical compound selected from the group consisting
2 of cis-4-{4- $\overline{4}$ {4- $\overline{2}$ -(2,4-dichlorophenyl)-2-(1H-1,2,4-triazol-
3 1-ylmethyl)-1,3-dioxolan-4-ylmethoxy/phenyl}-1-piperazinyl/phenyl
4 }-2,4-dihydro-5-methyl-2-propyl-3H-1,2,4-triazol-3-one
5 one monohydrate and the pharmaceutically acceptable acid addition
6 salts and stereochemically isomeric forms thereof.

1 10. A chemical compound selected from the group consist-
2 ing of cis-4-{4- $\overline{4}$ {4- $\overline{2}$ -(2,4-dichlorophenyl)-2-(1H-1,2,4-
3 triazol-1-ylmethyl)-1,3-dioxolan-4-ylmethoxy/phenyl}-1-pipera-
4 zinyl/phenyl}-2-ethyl-2,4-dihydro-3H-1,2,4-triazol-3-one and
5 the pharmaceutically acceptable acid addition salts and stereo-
6 chemically isomeric forms thereof.

11. A composition for combatting the growth of a microorganism selected from the group consisting of fungus and bacterium comprising an inert carrier material and as an active ingredient an effective antifungal or antibacterial amount of a compound selected from the group consisting of an azole derivative having the formula



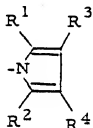
and the pharmaceutically acceptable acid addition salts and stereochemically isomeric forms thereof, wherein:

Q is a member selected from the group consisting of CH and N;

Ar is a member selected from the group consisting of phenyl, thienyl, halothienyl and substituted phenyl, said substituted phenyl having from 1 to 3 substituents each independently selected from the group consisting of halo, lower alkyl, lower alkyloxy and trifluoromethyl; and

the radical Y is a member selected from the group consisting of

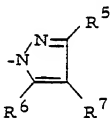
- 15 a 1H-pyrrol-1-yl radical of the formula



(a)

- 16 wherein R^1 , R^2 , R^3 and R^4 are each independently selected
17 from the group consisting of hydrogen, lower alkyl, aryl
18 and aryl lower alkyl;

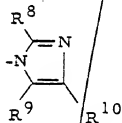
- 19 a 1H-pyrazol-1-yl radical of the formula



(b)

- 20 wherein R^5 , R^6 and R^7 are each independently selected from
21 the group consisting of hydrogen, lower alkyl, aryl and
22 aryl lower alkyl;

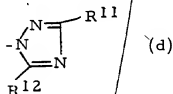
- 23 a 1H-imidazol-1-yl radical of the formula



(c)

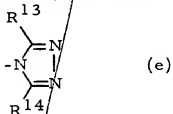
- 24 wherein R^8 is selected from the group consisting of hydro-
25 gen, mercapto, lower alkylthio and aryl lower alkylthio,
26 and R^9 and R^{10} are each independently selected from the
27 group consisting of hydrogen, lower alkyl, aryl and
28 aryl lower alkyl;

29 a 1H-1,2,4-triazol-1-yl radical of the formula



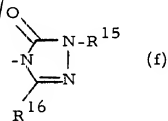
30 wherein either of R^{11} and R^{12} is selected from the group
 31 consisting of hydrogen, hydroxy, mercapto, lower alkylthio
 32 and aryl-lower alkylthio, the remaining being selected
 33 from the group consisting of hydrogen, lower alkyl and
 34 aryl-lower alkyl;

35 a 4H-1,2,4-triazol-4-yl radical of the formula



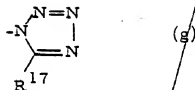
36 wherein R^{13} is selected from the group consisting of
 37 hydrogen, mercapto, hydroxy, lower alkylthio and aryl
 38 lower alkylthio, and R^{14} is selected from the group consist-
 39 ing of hydrogen, lower alkyl, aryl and arylllower alkyl;

40 a 2,3-dihydro-4H-1,2,4-triazol-4-yl radical of the formula



41 wherein R^{15} is selected from the group consisting of lower
 42 alkyl and aryl lower alkyl and R^{16} is selected from the
 43 group consisting of hydrogen, lower alkyl, and aryl lower
 44 alkyl;

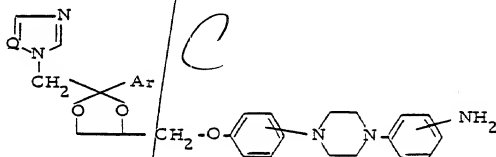
a 1H-1,2,3,4-tetrazol-1-yl radical of the formula



wherein R¹⁷ is selected from the group consisting of hydrogen, mercapto, lower alkyl, aryl and aryl lower alkyl;

wherein said aryl as used in the foregoing definition is selected from the group consisting of phenyl and substituted phenyl, said substituted phenyl having from 1 to 3 substituents each independently selected from the group consisting of halo, lower alkyl, lower alkyloxy and trifluoromethyl.

12. A chemical compound having the formula

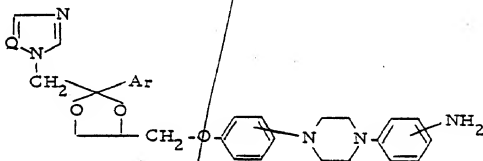


and the pharmaceutically acceptable acid addition salts and stereochemically isomeric forms thereof, wherein:

Q is a member selected from the group consisting of CH and N;

Ar is a member selected from the group consisting of phenyl, thienyl, halothieryl and substituted phenyl, said substituted phenyl having from 1 to 3 substituents each independently selected from the group consisting of halo, lower alkyl, lower alkyloxy and trifluoromethyl.

13. A composition for combatting the growth of a micro-organism selected from the group consisting of fungus and bacterium comprising an inert carrier material and as an active ingredient an effective antifungal or antibacterial amount of a compound selected from the group consisting of an azole derivative having the formula



and the pharmaceutically acceptable acid addition salts and stereochemically isomeric forms thereof, wherein:

Q is a member selected from the group consisting of CH and N;

Ar is a member selected from the group consisting of phenyl, thienyl, halothienyl and substituted phenyl, said substituted phenyl having from 1 to 3 substituents each independently selected from the group consisting of halo, lower alkyl, lower alkyloxy and trifluoromethyl.

14. A chemical compound selected from the group consisting of cis-1-{4-[2-(2,4-dichlorophenyl)-2-(1H-1,2,4-triazol-1-ylmethyl)-1,3-dioxolan-4-ylmethoxy]phenyl}-4-[4-(1H-tetrazol-1-yl)phenyl]-piperazine and the pharmaceutically acceptable acid addition salts and stereochemically isomeric forms thereof.

add
a' →